

FIG. 2

REGISTER sip: Request-URI SIP/2.0 Via: SIP/2.0/UDP IP address

From: sip: public address [user@domain]

E.164 address@CSCFdomain; user=phone]

o: sip: public address [user@domain]

E.164 address@CSCFdomain; user≕phone] Call-ID: local-ID@host

CSeq: 1 REGISTER

Contact: <sip:user@IP address:port; transport=udp/tcp>

Authorization: UMTS <RES value in HEX format>

Content-Length:X

Expires: delta-seconds

Content-type: presence/TID

registration-state=nnn,owner=mike.lee, <ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur><ur>< nationality=xyz,id=221161-3355, email=mike.lee@hardcom.com, pstn=+358405021988.....>

REGISTER sip: i-cscsf.nokia.com SIP/2.0

Via: SIP/2.0/UDP i-cscf.nokia.com

From: sip: Road_user@CSCFdomain; user=phone

To: sip: Road_user @CSCFdomain; user=phone

Call-ID: my_host@host

CSeq: 1 REGISTER

Contact: <sip:joe@nokia.com:5060; transport=udp>

Authorization: UMTS <RES value in HEX format>

Content-Length:X

Expires: delta-seconds

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Content-type: application/TID

ENCRYPTED

urn:namespace-xyz:car=abc-888,registration-

nationality=xyz,id=221161-3355, state=nnn, owner=mike.lee,

email=mike.lee@hardcom.com,

pstn=+358405021988

INVITE sip: i-cscsf.nokia.com SIP/2.0 Via: SIP/2.0/UDP i-cscf.nokia.com

From: sip: Road_user@CSCFdomain; user=phone To: sip: Road_user @CSCFdomain; user=phone

Call-ID: my_host@host

CSeq: 1 INVITE

Contact: <sip:joe@nokia.com:5060; transport=udp> Authorization: UMTS <RES value in HEX format>

Content-Length:X

Expires: delta-seconds

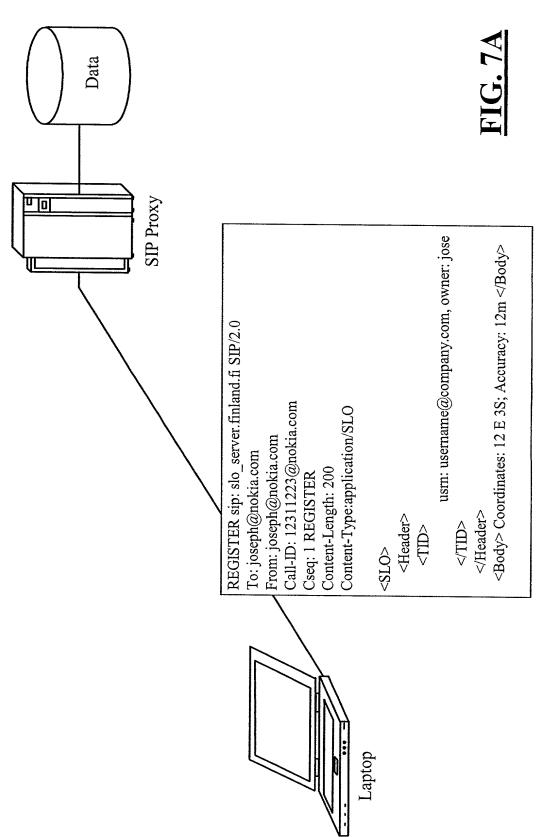
Content-type: service-request/NML

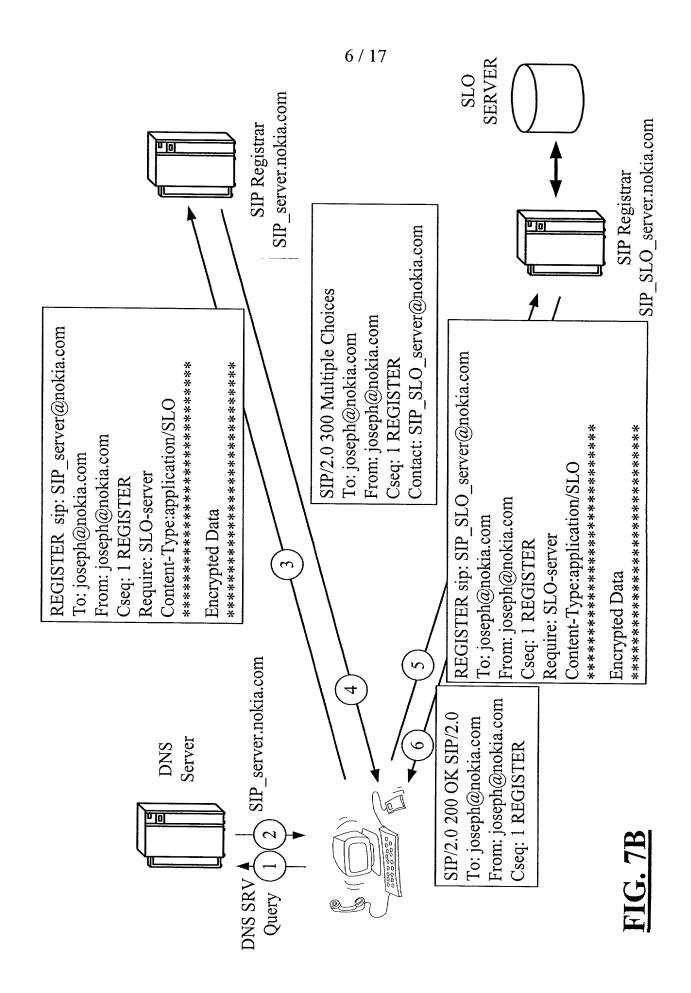
< Here is defined a XML script defining the type of service requested in this session following a Nokia based XML DTD>

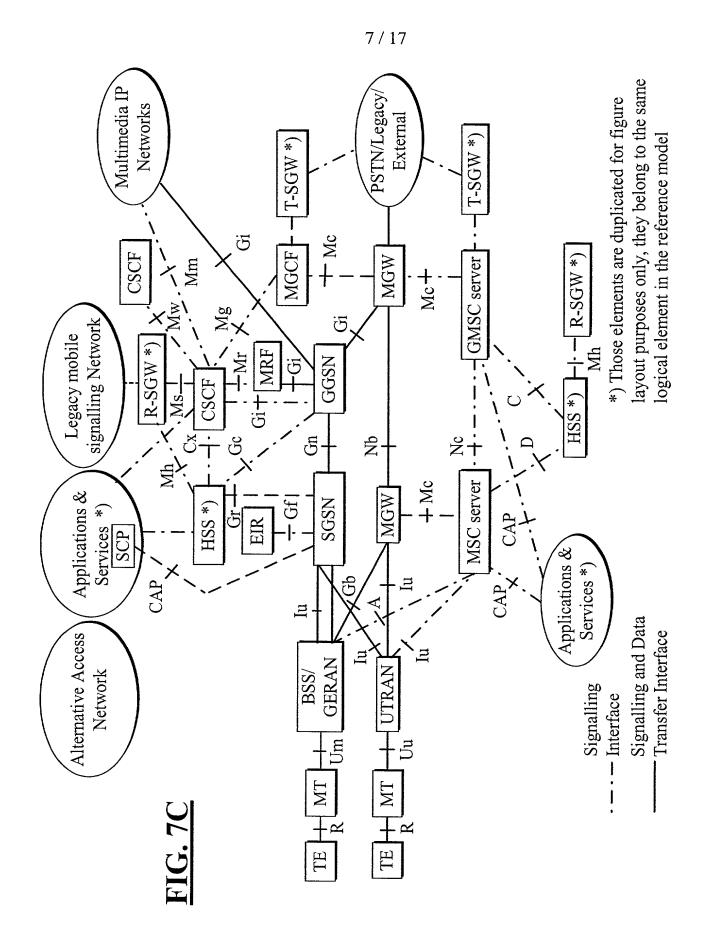
Datum	- WGS84	(Mandatory)
Coordinates	- Latitude	(Mandatory)
	- Longitude	(Mandatory)
	- Altitude above WGS84 reference	(Optional)
	ellipsoid	(Optional)
	- Altitude above mean sea level	
Location	- Horizontal accuracy, by radius of a	(Optional)
Accuracy	circle from the positioned point	
	- Altitude accuracy, by range from the	(Optional)
	positioned point	
Time	- Real time of the measurement/fix	(Mandatory)
Speed	- Ground speed	(Optional)
	- Vertical speed	(Optional)
Direction	- Direction of movement	(Optional)
Course	- Direction from the current position to a	(Optional)
	defined destination	
Orientation	- Horizontal orientation	(Optional)
	Vertical orientation (pitch)	
Un-specified	- Attributes enabling some extensibility	(Optional)
Attributes		

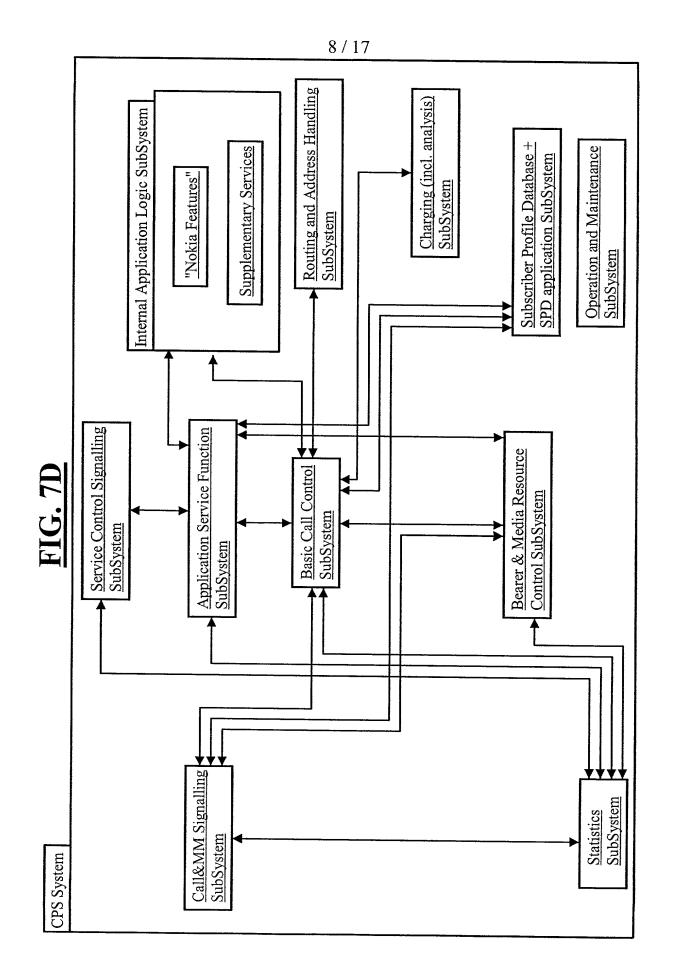
FIG. (

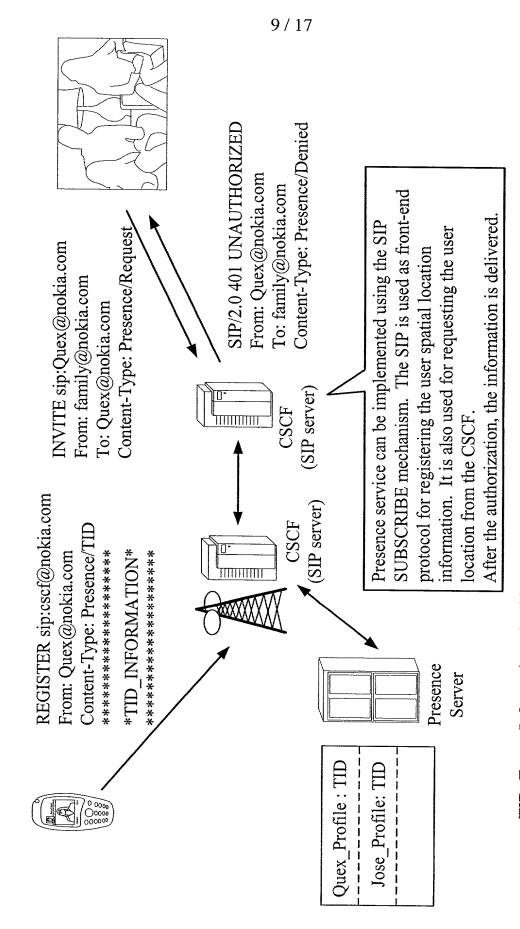
```
Here comes a SGML script indicating geographical coordinates x,y,z
                                                                                                       email=jose.Costa-Requena@nokia.com, pstn=+358405201815
                                                                        urn:username@company.com, owner=jose,id=2342112,
                                                                                                                                                                                                                                                                                                                                                                   I am sitting in a terrace at second floor of Eiffel Tower
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                           <Coordinates-calculation: Enabled/>
                                                                                                                                                                                                                     <Signature: aZWQAd22aFg&"£4/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                        <Coordinates-coding: SGML/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                               <Device-Status: moving/>
<Device-Staticy: 7/>
                                                                                                                                                                                                                                                      <Time-to-Live: 3000 sec>
                                                                                                                                                                                                                                                                                                                                                                                              </Location-description>
                                                                                                                                                                                                                                                                                                                                       <Location-description>
                                                                                                                                                                                                                                                                                                                                                                                                                                                      <Device-Type: mobile/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    </Coordinates-data>
                                                                                                                                                                                        <Transparency: 0/>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    <Coordinates-data>
                                                                                                                                                                                                                                                                                                                                                                                                                          <Accuracy: 5m/>
                                                                                                                                                          <Security: 10/>
                                                       </Header>
                         <Header>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 </Body>
<SL-info>
                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                </ST-info>
```



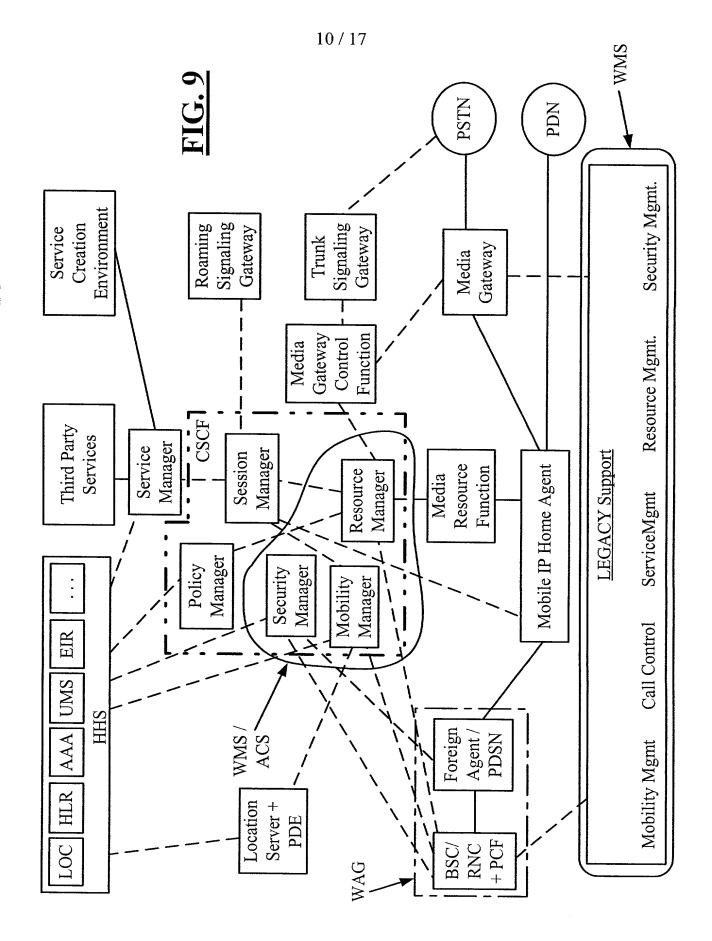


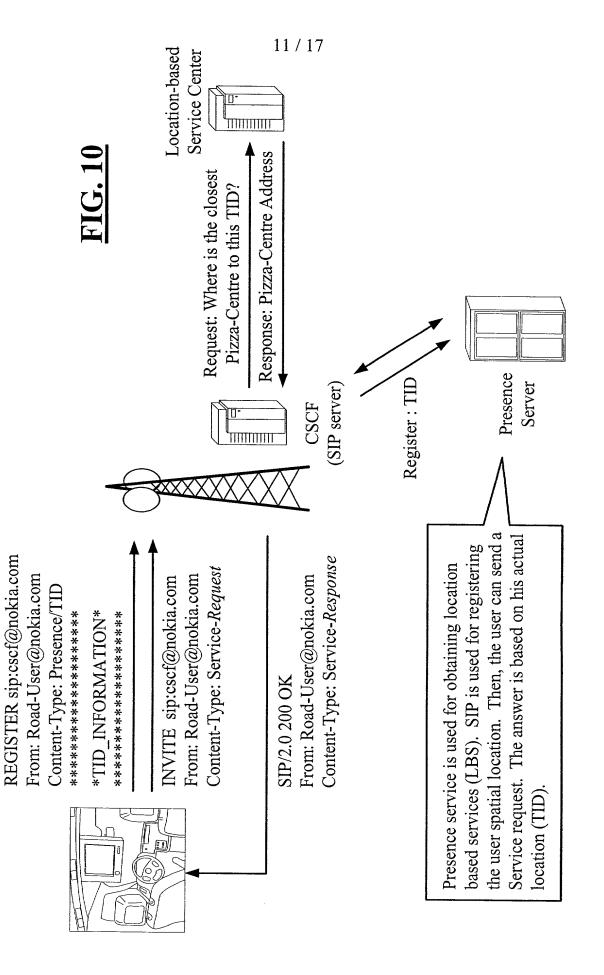


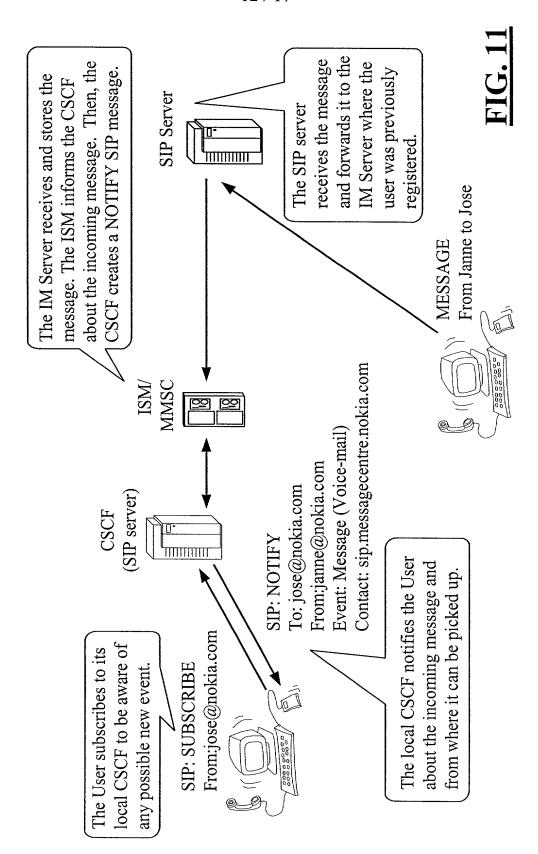


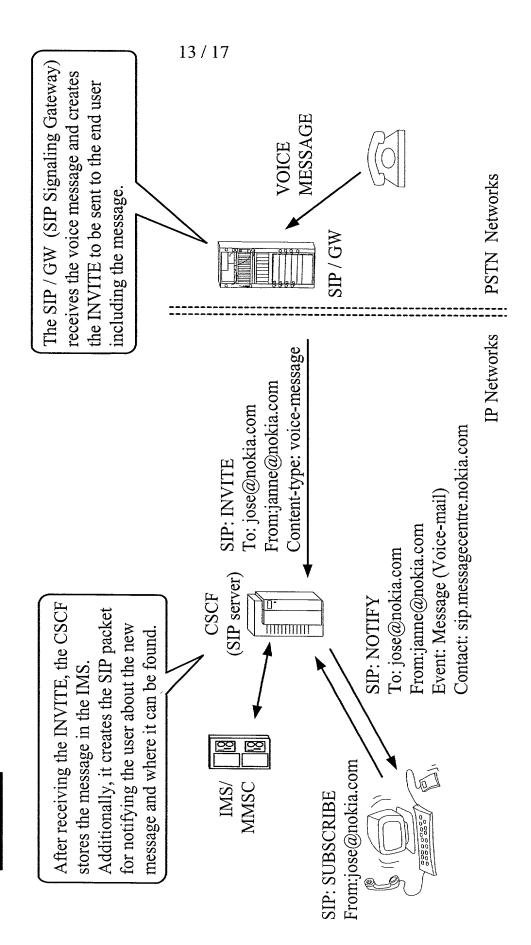


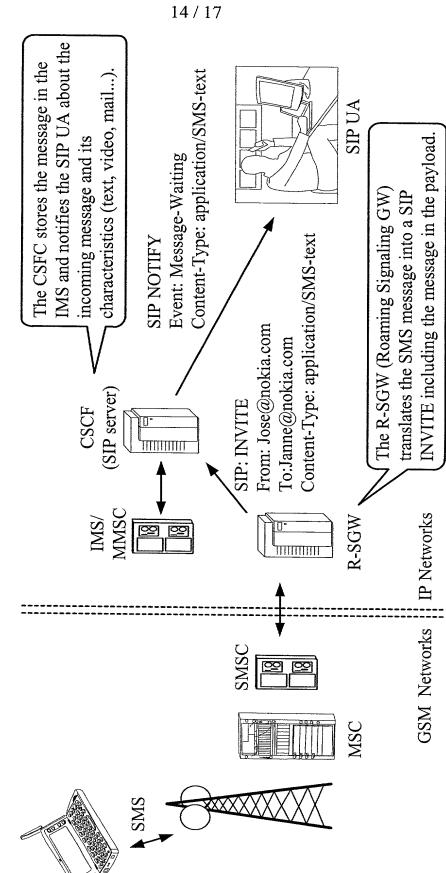
TID: Target Information Identifier gives the user location information based on GPS or other mechanism.











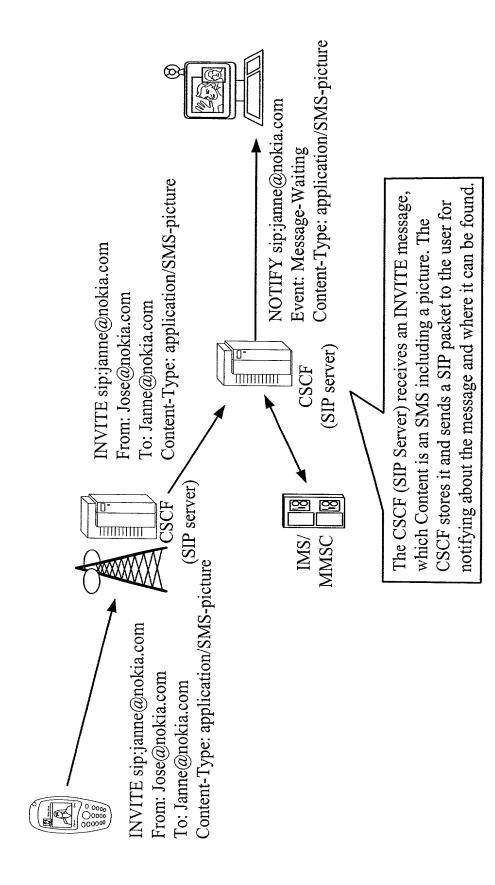


FIG. 14

